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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO.

09/780.540

02/12/01

HIRAYAMA

Υ

01028

EXAMINER

MMC1/0410

DENNISON, MESEROLE, SCHEINER & SCHULTZ SUITE 612 1745 JEFFERSON DAVIS HIGHWAY ARLINGTON VA 22202-3417 MELLYEN, ART UNIT

PAPER NUMBER

2872 **DATE MAILED:**

04/10/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

		Ap Cant(s)
	Application No.	HIRAYAMA ET AL.
^	09/780,540	Art Unit
Office Action Summary	Examiner	2872
	Thong Q Nguyen	the poer spondenc address
Th MAILING DATE of this communication a	ppears on the cover shet	with the corr spondons
riod for Reply		a MONTH(S) FROM
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, at If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by site of the period for reply within the set or extended period for reply will, by site of the period for reply within the set or extended period for reply will, by site of the period for reply within the set or extended period for reply will, by site of the period for reply within the set or extended period for reply will, by site of the period for reply will be period for reply will, by site of the period fo	R 1.136 (a). In no event, noncression, a reply within the statutory minimum in the statutory minimum in the statutory minimum in the statute, cause the application to beconailing date of this communication, e	of thirty (30) days will be considered timely. MONTHS from the mailing date of this communication.
1) Responsive to communication(s) filed on		
This action is FINAL. 2b)⊠	This action is non man	I attore prosperiment as to the
3) Since this application is in condition for a closed in accordance with the practice u	illowance except for formation and independent of the following series and independent	al matters, prosecution as to the merits is 35 C.D. 11, 453 O.G. 213.
Disposition of Claims	ation	
4) Claim(s) 1-6 is/are pending in the application	aliuii. Uhdanun from considerati(on.
4a) Of the above claim(s) is/are wi	thdrawn from consideration	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-6</u> is/are rejected.	•	
- ideas objected to.	- due clockion requireme	ent.
7) Claim(s) is/are objected to 8) Claims are subject to restriction	and/or election roquirem	
Application Papers	imor	
that he that	xaminer.	e Examiner.
		ed b) disapproved.
The proposed drawing correction filed to	JII 15: 4) L3 - 11	
11)∐ The proposed diameter 12)⊠ The oath or declaration is objected to b	by the Examiner.	
		usc § 119(a)-(d) or (f).
Priority under 35 U.S.C. § 119 13)	or foreign prionty under 35	0,0,0
Come * c) X None 01:		
	ocuments have been rece	election No.
1. Certified copies of the priority do2. Certified copies of the priority do	ocuments have been rece	elved in Application 175
Copies of the certified copies of	the priority documents in	17 2(a))
application from the meaning	for a list of the certified C	opies flot received.
* See the attached detailed Office action 14) Acknowledgement is made of a claim	l for domestic priority und	er 35 U.S.C. 9 119(0):
Attachment(s)	18) [Interview Summary (PTO-413) Paper No(s)
15) ☑ Notice of References Cited (PTO-892) 16) ☐ Notice of Draftsperson's Patent Drawing Review (17) ☐ Information Disclosure Statement(s) (PTO-1449) I	PTO-948)	Interview Summary (1.10 Hb) Notice of Informal Patent Application (PTO-152) Other:
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Art Unit: 2872

DETAILED ACTION

Priority

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Japan on 02/16/2000. It is noted, however, that applicant has not filed a certified copy of the Japanese application as required by 35 U.S.C. 119(b).

Oath/Declaration

2. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because: Non-initialed and/or non-dated alterations have been made to the oath or declaration. See 37 CFR 1.52(c).

The Oath/Declaration is objected to because it contains a correction in which applicant has failed to make an initialed acknowledge. See the change on the execution date of the first inventor, Yoshihisa Hirayama.

Drawings

- 3. It is noted that applicant has filed a set of drawings on 02/12/2001; however, the drawings have not been examined by an Office draftsperson at this time because the present drawings are objected to for the following reason.
- 4. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the feature concerning the second angle of inclination is about 45 degrees as recited in claim 3 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Art Unit: 2872

Specification

5. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

6. Claim 3/1 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

Claim 3/1 is objected to because the claim fails to further limit the subject matter recited in its base claim 1. In particular, claim 3/1 recites that the second angle of inclination is 45 degrees; however, the base claim 1 recites that the second angle of inclination is smaller than the first angle of inclination.

It is noted that the present specification discloses a light guide member having a reflection surface with plural grooves formed on the reflection surface. Each of the grooves has a front side having a first angle of inclination and a rear side having a second angle of inclination. In an embodiment as provided at pages 5-6, applicant has provided an embodiment in which the angle defined by the front side and rear side of the groove is 90 degrees, and the second angle of inclination is 45 degrees. As a result of such a structure, the first angle of inclination will be (90 degrees – 45 degrees) = 45 degrees. Since both the first

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Art Unit: 2872

and second angles of inclination are equal to each other; therefore, the feature recites in claim 3/1 is considered as failing to further limit the subject matter thereof "each of...angle" recited in base claim 1, lines 12-15).

Claim Rejections - 35 USC § 112

7. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

8. Claim 3 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim 3 is rejected under 35 USC 112, first paragraph because the specification does not disclose a light guide element having a reflecting surface with a plural of grooves wherein each of the grooves meets both the limitations recited in claim 1 (lines 12-15) and claim 3/1 (lines 1-2). In other words, the specification does not teach that each of the grooves meets both conditions of 1) the second angle of inclination is both smaller than the first angle of inclination; and 2) the second angle of inclination is 45 degrees.

It is noted that the present specification discloses a light guide member having a reflection surface with plural grooves formed on the reflection surface. Each of the grooves has a front side having a first angle of inclination and a rear side having a second angle of inclination. In an embodiment as provided at pages 5-6,

Art Unit: 2872

applicant has provided an embodiment in which the angle defined by the front side and rear side of the groove is 90 degrees, and the second angle of inclination is 45 degrees. As a result of such a structure, the first angle of inclination will be (90 degrees – 45 degrees) = 45 degrees. Since both the first and second angles of inclination are equal to each other; therefore, the feature recites in claim 3/1 is considered as failing to further limit the subject matter thereof "each of... angle" recited in base claim 1, lines 12-15).

Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 10. Claims 1-6, as best as understood, are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Redmond et al (U.S. Patent No. 5,664,862).

See Redmond et al, columns 2-3 and 5 and figures 1 and 7.

Conclusion

- 11. The additional references are cited as of interest in that each discloses an illuminating system for a display device wherein the illuminating system comprises a light guide element having plural grooves formed on a reflecting surface.
- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thong Q Nguyen whose telephone number is 703 308 4814. The examiner can normally be reached on M-F.

Art Unit: 2872

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cassandra Spyrou can be reached on 703 308 1687. The fax phone numbers for the organization where this application or proceeding is assigned are 703 308 7724 for regular communications and 703 308 7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308 0956.

Thorig Q Nguyen Primary Examiner Art Unit 2872

April 3, 2001